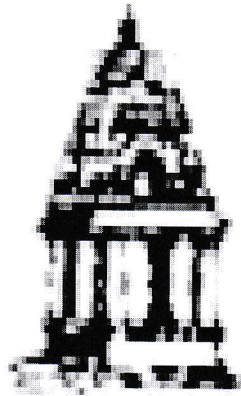


BRUHAT BANGALORE MAHANAGARA PALIKE



**Asst.Executive Engineer,
Shettyhalli Sub Division,**

Name of Work Improvements of C C roads in 4th, 6th, 7th, 8th Cross Roads & Other Roads in Santhoshnagar in Ward No.13, in Shettyhalli Sub Division.

Est Cost:50.00 Lakhs

Bruhath Bangalore Mahanagara Palike Dasarahalli Zone

Name of Work: Improvements of C C roads in 4th, 6th, 7th, 8th Cross Roads & Other Roads in Santhoshnagar in Ward No.13, in Shettyhalli Sub Division.

<i>Est .Cost Rs.50.00 Lakhs</i>									
SI No	Description of Items	Unit	No	L	B	D	Qty	Rate	Amount
1	KSRRB 300-3. Earthwork excavation by manual means in ordinary soil involving in average horizontal throw up to 2m & an average lift upto 1.5m , excavated surface leveled & sides neatly dressed , the disposed earth to be levelled neatly after breaking of clods complete as per specification MORTH/ Chapter 3. Page No. 142/ Item No. 19.1/ PWD SR 2016-17								
	4th Cross	cum	1	65.00	0.90	0.50	29.25		
	6th Cross		1	55.00	0.90	0.50	24.75		
	7th Cross		1	45.00	0.90	0.50	20.25		
	8th Cross		1	60.00	0.90	0.50	27.00		
	7th B Cross		1	21.00	0.90	0.50	9.45		
	4th Cross Near Church		1	65.00	0.90	0.50	29.25		
	2nd Cross		1	65.00	0.90	0.50	29.25		
	3rd Cross		1	65.00	0.90	0.50	29.25		
	2nd Main		1	75.00	0.90	0.50	33.75		
	9th Cross		1	105.00	0.90	0.50	47.25		
	4th Cross Near Ashwath katte		1	70.00	0.90	0.50	31.50		
	Cross Road		1	50.00	0.90	0.50	22.50		
	4th Cross		2	65.00	0.45	0.40	23.40		
	6th Cross		2	55.00	0.45	0.40	19.80		
	7th Cross		2	45.00	0.45	0.40	16.20		
	8th Cross		2	60.00	0.45	0.40	21.60		
	7th B Cross		2	21.00	0.45	0.40	7.56		
	4th Cross Near Church		2	65.00	0.45	0.40	23.40		
	2nd Cross		2	65.00	0.45	0.40	23.40		
	3rd Cross		2	65.00	0.45	0.40	23.40		
	2nd Main		2	75.00	0.45	0.40	27.00		
	9th Cross		2	105.00	0.45	0.40	37.80		
	4th Cross Near Ashwath katte		2	70.00	0.45	0.40	25.20		
	Cross Road		2	50.00	0.45	0.40	18.00		
	4th Cross		2	65.00	0.45	0.30	17.55		
	6th Cross		2	55.00	0.45	0.30	14.85		
	7th Cross		2	45.00	0.45	0.30	12.15		
	8th Cross		2	60.00	0.45	0.30	16.20		
	7th B Cross		2	21.00	0.45	0.30	5.67		
	4th Cross Near Church		2	65.00	0.45	0.30	17.55		
	2nd Cross		2	65.00	0.45	0.30	17.55		
	3rd Cross		2	65.00	0.45	0.30	17.55		
	2nd Main		2	75.00	0.45	0.30	20.25		
	9th Cross		2	105.00	0.45	0.30	28.35		
	4th Cross Near Ashwath katte		2	70.00	0.45	0.30	18.90		
	Cross Road		2	50.00	0.45	0.30	13.50		
				3.00			800.28	172.57	138104.32

KSSRB M400-7 Construction Of granular sub -base by providing coarse graded crushed stone aggregates of granite / trap / basalt material spreading in uniform layers with motor grader on prepared surface,mixing by mix in place method with rotavator at OMC,and compacting with vibratory roller to achieve the desired density. complete as per specification.

By mix in place method for Grading II Material KSSRB Page No 156 Item No 20.6 and 20.6.3

4th Cross	Cum	1	65.00	0.90	0.20	11.70		
6th Cross		1	55.00	0.90	0.20	9.90		
7th Cross		1	45.00	0.90	0.20	8.10		
8th Cross		1	60.00	0.90	0.20	10.80		
7th B Cross		1	21.00	0.90	0.20	3.78		
4th Cross Near Church		1	65.00	0.90	0.20	11.70		
2nd Cross		1	65.00	0.90	0.20	11.70		
3rd Cross		1	65.00	0.90	0.20	11.70		
2nd Main		1	75.00	0.90	0.20	13.50		
9th Cross		1	105.00	0.90	0.20	18.90		
4th Cross Near Ashwath katte		1	70.00	0.90	0.20	12.60		
Cross Road		1	50.00	0.90	0.20	9.00		
4th Cross		2	65.00	0.45	0.15	8.78		
6th Cross		2	55.00	0.45	0.15	7.43		
7th Cross		2	45.00	0.45	0.15	6.08		
8th Cross		2	60.00	0.45	0.15	8.10		
7th B Cross		2	21.00	0.45	0.15	2.84		
4th Cross Near Church		2	65.00	0.45	0.15	8.78		
2nd Cross		2	65.00	0.45	0.15	8.78		
3rd Cross		2	65.00	0.45	0.15	8.78		
2nd Main		2	75.00	0.45	0.15	10.13		
9th Cross		2	105.00	0.45	0.15	14.18		
4th Cross Near Ashwath katte		2	70.00	0.45	0.15	9.45		
Cross Road		2	50.00	0.45	0.15	6.75		
						233.42	1582.58	369397.91

KSSRB M600-1 Construction Of **dry lean cement concrete mix CC1:5:10** With OPC cement @160kgs,with 25mm and down size graded granite metal coarse aggregate at 0.86cum and fine aggregates @0.58cum sub-base over a prepared sub-grade with (course and fine aggregate conforming to IS:383) aggregate cement ratio not to exceed 15:1.
 3 Aggregate gradation after blending to be as per Table 600-1, cement content not to be less than 160kg/cum, optimum moisture content to be less than 10Mpa at 7days, mixed in a batching plant, transported to site, laid with a paver with electronic sensor, compacting with 8-10 tonnes vibratory roller,finishing and curing complete as per Specification KSSRB:Page No 176, Item No 22.2 and 22.2.1

4th Cross	Cum	1	65.00	0.90	0.15	8.78		
6th Cross		1	55.00	0.90	0.15	7.43		
7th Cross		1	45.00	0.90	0.15	6.08		
8th Cross		1	60.00	0.90	0.15	8.10		
7th B Cross		1	21.00	0.90	0.15	2.84		
4th Cross Near Church		1	65.00	0.90	0.15	8.78		
2nd Cross		1	65.00	0.90	0.15	8.78		
3rd Cross		1	65.00	0.90	0.15	8.78		
2nd Main		1	75.00	0.90	0.15	10.13		
9th Cross		1	105.00	0.90	0.15	14.18		
4th Cross Near Ashwath katte		1	70.00	0.90	0.15	9.45		
Cross Road		1	50.00	0.90	0.15	6.75		
4th Cross		2	65.00	0.45	0.10	5.85		

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6th Cross		2	55.00	0.45	0.10	4.95		
7th Cross		2	45.00	0.45	0.10	4.05		
8th Cross		2	60.00	0.45	0.10	5.40		
7th B Cross		2	21.00	0.45	0.10	1.89		
4th Cross Near Church		2	65.00	0.45	0.10	5.85		
2nd Cross		2	65.00	0.45	0.10	5.85		
3rd Cross		2	65.00	0.45	0.10	5.85		
2nd Main		2	75.00	0.45	0.10	6.75		
9th Cross		2	105.00	0.45	0.10	9.45		
4th Cross Near Ashwath katte		2	70.00	0.45	0.10	6.30		
Cross Road		2	50.00	0.45	0.10	4.50		
						166.73	3986.66	664675.89

- 4 Cement concrete pavement. Construction of un-reinforced plain cement concrete pavement, thickness as per design, over a prepared sub base with OPC cement or any other type as per clause 1051.2.2 with 25mm and down size graded granite metal coarse aggregates and fine aggregates, with superplasticiser @3lts confirming to IS9103-1999 Reaffirmed-2008, mixed in a concrete mixer of not less than 0.6 cum capacity and appropriate weigh batcher as per approved mix design, laid in approved fixed side form work (steel channel, laying and fixing of 125 micron thick polythene film, wedges, steel plates including levelling the form work as per drawing) & spreading the concrete with shovels, rammers compacted using needle, screed and plate vibrator and finished with floaters in a continuous operation including provision of contraction, expansion, construction and longitudinal joints, including groove cutting charges, joint filler, separation membrane, sealant primer, joint sealant, admixtures as approved, including curing, finishing to lines and grades as per drawing complete as per specifications. **M30 (at 360Kg per cum coarse aggregate @ 0.69cum and fine aggregate @ 0.46cum) Page o 177 Item No 22.6.1**

4th Cross	Cum	1	65.00	4.80	0.15	46.80		
6th Cross		1	55.00	4.80	0.15	39.60		
7th Cross		1	45.00	4.80	0.15	32.40		
8th Cross		1	60.00	4.80	0.15	43.20		
7th B Cross		1	21.00	4.60	0.15	14.49		
4th Cross Near Church		1	65.00	5.00	0.15	48.75		
2nd Cross		1	65.00	4.20	0.15	40.95		
3rd Cross		1	65.00	4.20	0.15	40.95		
2nd Main		1	75.00	4.80	0.15	54.00		
9th Cross		1	105.00	5.20	0.15	81.90		
4th Cross Near Ashwath katte		1	70.00	5.00	0.15	52.50		
Cross Road		1	50.00	4.00	0.15	30.00		
						525.54	6217.96	3267786.70

- 5 Providing groove cutting for width of 5mm to 10mm and depth 80mm-100mm including cost of cutting machine, generator & HOM of machinery, including cost of blade, coolant etc., including cleaning of groove & providing sand and hot bitumen fillers, and filler metal etc., including cost of conveyance of all materials, labour, lead and lift charges and all other incidental charges as per drawing and as per specifications. for concrete pavement Page No.178/ Item No.22.8, 22.8.1/ PWD SR 2016-17

4th Cross	Rmt	1	13.00	4.80		62.40		
6th Cross		1	7.00	4.80		33.60		
7th Cross		1	7.00	4.80		33.60		
8th Cross		1	6.00	4.80		28.80		
7th B Cross		1	9.00	4.60		41.40		
4th Cross Near Church		1	6.00	5.00		30.00		
2nd Cross		1	5.00	4.20		21.00		
3rd Cross		1	5.00	4.20		21.00		

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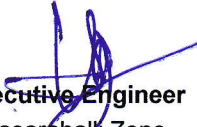
	2nd Main		1	7.00	4.80		33.60			
	9th Cross		1	3.00	5.20		15.60			
	4th Cross Near Ashwath katte		1	3.00	5.00		15.00			
	Cross Road		1	3.00	4.00		12.00			
							348.00	121.90	42421.20	
6	Providing & laying reinforced cement precast slabs of mix CC 1:11/2:3 using 20mm & down size graded Granite metal using HYSD 10mm dia steel @ 100mm c/c both ways & Complete as per specifications.									
	Missing Slabs	Sqm	138	0.60		0.75	62.10			
							62.10	1680.00	104328.00	
						Sub Total		4586714.02		
7	Miscellaneous and Other Charges								412804.26	
8	Rounding off								482	
						Grand Total		5000000.00		
(Rupees Fifty Lakhs Only)										

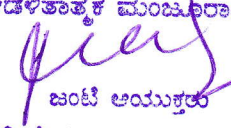
CERTIFICATE

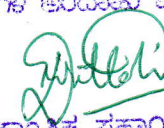
- 1 The Work spot has been inspected and the work found to be necessary
- 2 The Estimate is prepared as per the PWD SR 2016-17
- 3 The Provision made in estimate are adequate and essential
- 4 This area comes under BBMP limits.
- 5 This work is not included in any other estimate.


Asst Engineer
Ward No-13


Asst Executive Engineer
Shettyhalli Sub-Division
BBMP


Executive Engineer
Dasarahalli Zone
BBMP

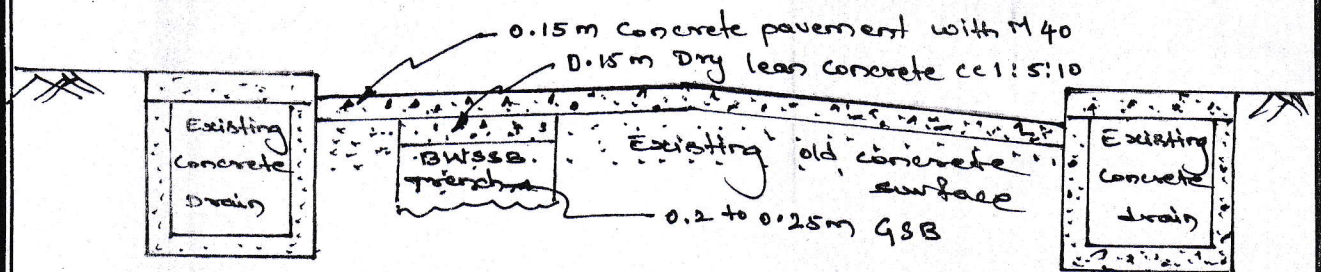
ನಂ. 5C/D/RS/PK/28/16-17 ದಿನಾಂಕ : 20/3/17
ರೂ. Rs. 50.00 lakhs only
Rs. Fifty lakhs only
ಗಳ ಅಂದಾಜು ಪಟ್ಟಿಗೆ ಅಡಳಿತಾತ್ಮಕ ಮಂಜೂರಾತಿ ನೀಡಿದೆ.

ಜಂಟಿ ಅಯುಕ್ತರು
ಬೃಹತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ
ದಾಸರಹಳ್ಳಿ ವಲಯ, ಬೆಂಗಳೂರು.

ನಂ. 5C/RS/16/17-18 ದಿನಾಂಕ : 13/04/2017
ರೂ. Rs. 50.00 lakhs only
Rs. fifty lakhs only
ಗಳ ಅಂದಾಜು ಪಟ್ಟಿಗೆ ತಾಂತ್ರಿಕ ಮಂಜೂರಾತಿ ನೀಡಿದೆ.
 ಮುಖ್ಯ ಅಧೀಕ್ಷಕರು
ತಾಂತ್ರಿಕ ಸಹಾಯಕರು ಜಿ.ಬಿ.ಎಂ.ಪಿ.
ದಾಸರಹಳ್ಳಿ ವಲಯ, ಬೆಂಗಳೂರು.

Name of Work

Improvements of CC roads in 4th
6th, 7th 8th cross roads & other roads
in Santhoshnagar in Ward No. 13 in
Shettyhalli Sub-Division

Carriage way 3 to 4.5m



Typical c/s of cc Road surface

